Biological Psychiatry
A Journal of Psychiatric Research

Contents

Volume 36, Number 1, July 1, 1994

EDITORIAL

1 Genetic Linkage and Mental Disorders: An Update on Analytic Methodologies
Miron Baron

ORIGINAL ARTICLES

5 An Artificial Neural Network Analogue of Learning in Autism
Ira L. Cohen

21 Voluntary Control of Saccadic Eye Movement in Patients with Frontal Cortical Lesions and Parkinsonian Patients in Comparison with that in Schizophrenics
Junko Fukushima, Kikuro Fukushima, Kazuo Miyasaka, and Itaru Yamashita

31 Iron, Copper, Zinc, Magnesium, and Calcium in Postmortem Brain Tissue from Schizophrenic Patients
Johannes Kornhuber, Klaus W. Lange, Paul Kruzik, Wolf-Dieter Rausch, Eberhard Gabriel, Kurt Jellinger, and Peter Riederer

35 Enhanced Stress Responsivity of Tourette Syndrome Patients Undergoing Lumbar Puncture
Phillip Chappell, Mark Riddle, George Anderson, Larry Scahill, Maureen Hardin, David Walker, Donald Cohen, and James Leckman

44 Peripheral Benzodiazepine Receptors Are Decreased during Cocaine Withdrawal in Humans
Javaid I. Javaid, Michael P. Notorangelo, Subhash C. Pandey, Poluru L. Reddy, Ghanshyam N. Pandey, and John M. Davis

51 Growth Hormone Response to Growth Hormone Releasing Hormone and to Clonidine Stimulation in Peripubertal Patients with Major Depressive Disorder
F. Brambilla, A. Guareschi-Cazzullo, C. Tacchini, G. Gerra, and C. Musetti

57 Sleep Panic Attacks: An Association with Childhood Anxiety and Adult Psychopathology
Lawrence A. Labbate, Mark H. Pollack, Michael W. Otto, Shani Langenauer, and Jerrold F. Rosenbaum

BRIEF REPORTS

61 Neuropeptide Y Cerebrospinal Fluid Levels in Patients with Normal Pressure Hydrocephalus Syndrome
Roberto Catalan, Juan Sahuquillo, Maria A. Poca, Albert Molins, Josep M. Castellanos, and Rosa Galard

64 Injection of Apomorphine into the Medial Prefrontal Cortex of the Rat Increases Haloperidol-Induced Catalepsy
Michael Bubser and Werner J. Schmidt

68 The Effects of Depression and Treatment on the Tridimensional Personality Questionnaire
Erin I. Kleifield, Suzanne Sunday, Stephen Hurt, and Katherine A. Halmi

Volume 36, Number 2, July 15, 1994

EDITORIAL

71 Genetic Markers, Temperament, and Psychopathology
Robert H. Belmaker and Joseph Biederman

ORIGINAL ARTICLES

73 Pentagastrin Infusions in Patients with Panic Disorder
I. Symptoms and Cardiovascular Responses
James L. Abelson and Randolph M. Nesse

84 Pentagastrin Infusions in Patients with Panic Disorder
II. Neuroendocrinology
James L. Abelson, Randolph M. Nesse, and Aaron I. Vinik

97 Kynurenine in Blood Plasma and DST in Patients with Endogenous Anxiety and Endogenous Depression
Alexei B. Orlikov, Irina B. Prakhye, and Ivan V. Ryzov

103 Alteration in Regional Brain Neuropeptides Following Intracerebroventricular Infusion of Excitotoxins in Rats
Hiroyuki Kaneda and Kiyoshi Maeda

110 Comparative Study of Dopamine Metabolism with Local Cerebral Glucose Utilization in Rat Brain Following the Administration of Haloperidol Decanoate
Masayoshi Kurachi, Shin-ichi Yasui, Ryoko Shibata, Masahiko Murata, Hirohumi Hagino, Teru Kurachi, Yasuyuki Tanii, and Kouichi Kurata

118 Effects of Flunarizine and Calcium on Serotonin Uptake in Human and Rat Blood Platelets and Rat Synaptosomes
Peer N. Jensen, Donald F. Smith, Jørgen H. Poulson, Holger J. Møller, and Raben Rosenberg

124 The Clinician-Administered Rating Scale for Mania (CARS-M): Development, Reliability, and Validity
Edward G. Altman, Donald R. Hedeker, Philip G. Janicak, James L. Peterson, and John M. Davis

BRIEF REPORTS

135 Thyroid Function During Carbamazepine
Maria Del Zompo, Alberto Bocchetta, Andrea Loviselli, Enio Martino, Robert M. Post, and Terence A. Ketter

137 Influence of the Menstrual Cycle Phase on the Therapeutic Response in Schizophrenia
Wagner F. Gattaz, Peter Vogel, Anita Riecher-Rössler, and Gemma Soddu

Volume 36, Number 3, August 1, 1994

EDITORIAL

141 Psychiatric Medical Comorbidity: Implications for Health Services Delivery and for Research on Depression
Ira R. Katz, Joel Streim, and Patricia Parmelee

ORIGINAL ARTICLES

146 Physical Comorbidity and Polypharmacy in Older Psychiatric Patients
Jonathan P. Lacro, and Dilip V. Jeste

153 ERPs in Schizophrenia: Effects of Antipsychotic Medication
Judith M. Ford, Patricia M. White, John G. Csernansky, William O. Faustman, Walton T. Roth, and Adolf Pfefferbaum

171 Right Frontotemporal Activation by Tonal Memory in Dyslexia, an O^{15} PET Study
Judith M. Rumsey, Paul Andreason, Alan J. Zametkin, A. Catherine King, Susan D. Hamburger, Tracy Aquino, Ashley P. Hanahan, Anita Pikus, and Robert M. Cohen

181 Dawn Simulation Compared with a Dim Red Signal in the Treatment of Winter Depression
David H. Avery, Mary Ann P. Bolte, James K. Wolfson, and Alexandra L. Kazaras

189 Electroencephalographic Activity and Mood in Cocaine-Dependent Outpatients: Effects of Cocaine Cue Exposure
Lance O. Bauer and Henry R. Kranzler

BRIEF REPORTS

198 Stability of Neurological Signs with Clozapine Treatment
Robert W. Buchanan, Peter Koeppl, and Alan Breier

201 Follicular and Late Luteal Phase Serum Fluoxetine Levels in Women Suffering from Late Luteal Phase Dysphoric Disorder
Donna E. Stewart, Margaret Fairman, Sandra Barbadoro, Patricia Zownir, and Meir Steiner

203 Serial Dexamethasone Suppression Tests (DST) in Recently Hospitalized Children
Charles D. Casat, Deborah Pearson, Javier Ruiz-Nazario, and Howard Rhoades

CORRESPONDENCE

206 "Adverse Reaction to Aspartame: Double-Blind Challenge in Patients from a Vulnerable Population" by Walton et al; Response; Magnetic Cortex Stimulation as a Therapeutic Strategy in Schizophrenia?; CSPT Circuitry in Affective Disorders; PCP and Antipsychotic Drugs; Response

Volume 36, Number 4, August 15, 1994

EDITORIAL

211 Metabolism and Chirality in Psychopharmacology
Glen B. Baker, Ronald T. Coutts, and Andrew Holt

ORIGINAL ARTICLES

214 Shortened REM Latency PostECT Is Associated with Rapid Recurrence of Depressive Symptomatology
Leon Grunhaus, James E. Shipley, Alan Eiser, Atul C. Pande, Rajiv Tandon, Anna Remen, and John F. Greden

223 A Linkage Study of Distal Chromosome 5q and Bipolar Disorder
Arvin L. Mirow, Helgi Kristbjanarson, Janice A. Egeland, Paul Shilling, Tomas Helgason, J. Christian Gillin, Sharon Hirsch, and John R. Kelsoe

230 A Comparison of Plasma Homovanillic Acid in the Deficit and Nondeficit Subtypes of Schizophrenia
Jean-Marie Ribeyre, Phillipe Lesieur, Odile Varoquaux, Sonia Dollfus, Michel Pays, and Michel Petit

237 Noradrenergic and Adrenergic Functioning in Autism
Ruud B. Minderaa, George M. Anderson, Fred R. Volkmar, Grard W. Akkerhuis, and Donald J. Cohen

REVIEW ARTICLE

242 Effects of Cocaine on Sensory Inhibition in Rats: Preliminary Data
Nashaat N. Boutros, Norman Uretsky, Gary Berntson, and Robert Bornstein

249 A Review of the GHRH Stimulation Test in Psychiatry
Stacy S. Skare, Maurice W. Dysken, and Charles J. Billington

CASE REPORTS

266 Amineptine Dependence and Schizophrenia
Jesus M. Prieto, Ana Gost, Joan Obiols, and Natalia Caycedo

269 Comparison of Cyproterone Acetate (CPA) and Leuprolide Acetate (LHRH Agonist) in a Chronic Pedophile; A Clinical Case Study
Alan J. Cooper and Zack Z. Cernovsky

BRIEF REPORTS

272 Changes in the Dopaminergic Innervation of Monkey Prefrontal Cortex during Late Postnatal Development: A Tyrosine Hydroxylase Immunohistochemical Study
David R. Rosenberg, and David A. Lewis

278 NEWS AND NOTES

Volume 36, Number 5, September 1, 1994

ORIGINAL ARTICLES

281 Studies of a Neurochemical Link between Depression, Anxiety, and Stress from [^{3}H] Imipramine and [^{3}H] Paroxetine Binding on Human Platelets
Linda J. Iny, John Pecknold, Barbara E. Suranyi-Cadotte, Barbara Bernier, Lorenz Luthe, N.P.V. Nair, and Michael J. Meaney

292 Is Platelet Imipramine Binding Reduced in Depression? A Meta-Analysis
Peter M. Ellis and Clare Salmond

300 Attenuation of Hormone Responses to the 5-HT$_{1A}$ Agonist Ipsapirone by Long-Term Treatment with Fluoxetine, but not Desipramine, in Male Rats
Qian Li, Mark S. Brownfield, Andrew D. Levy, George Battaglia, Theresa M. Cabrera, and Louis D. Van de Kar

309 The 5-HT$_3$ Antagonist BRL 46470 Does Not Attenuate *m*-Chlorophenylpiperazine (*m*CPP)-Induced Changes in Human Volunteers
Peter H. Silverstone and Philip J. Cowen

317 Acute d-Amphetamine Challenge in Schizophrenia: Effects on Cerebral Glucose Utilization and Clinical Symptomatology
Adam Wolkin, Michael Sanfilipo, Burton Angrist, Erica Duncan, Susan Wieland, Alfred P. Wolf, Jonathan D. Brodie, Thomas B. Cooper, Eugene Laska, and John P. Rotrosen

REVIEW ARTICLE

326 Serotin and Alcohol Intake, Abuse, and Dependence: Clinical Evidence
David LeMarquand, Robert O. Pihl, and Chawki Benkelfat

CASE REPORTS

338 Clozapine Treatment of Nonpsychotic Rapid Cycling Bipolar Disorder: A Report of Three Cases
Trisha Suppes, Katherine A. Phillips, and Catherine R. Judd

341 Sleepiness and Sleep Onset REM Periods in the Absence of Clinical Symptomatology
Leon Rosenthal, Michael Folkerts, Timothy Roehrs, Frank Zorick, and Thomas Roth

BRIEF REPORTS

344 Reduced Prolactin Response to Fenfluramine Challenge in Personality Disorder Patients Is Not Due to Deficiency of Pituitary Lactotrophs
Emil F. Coccaro, Howard Klar, and Larry J. Siever

347 Pain Thresholds Are Not Elevated in Trichotillomania
Gary A. Christenson, Nancy C. Raymond, Patricia L. Faris, Robin D. McAllister, Scott J. Crow, Lynn A. Howard, and James E. Mitchell

CORRESPONDENCE

350 Clozaril—Saving Lives; Punding on Levodopa

Volume 36, Number 6, September 15, 1994

EDITORIAL

353 Is Impulsive Aggression a Disorder of the Individual or a Social Ill? A Matter of Metaphor
Dan J. Stein

ORIGINAL ARTICLES

356 Neuroendocrine Effects of Light Therapy in Late Luteal Phase Dysphoric Disorder
Barbara L. Parry, Richard Hauger, Emily Lin, Betina LeVeau, Nasim Mostofi, Paul L. Clopton, and J. Christian Gillin

365 Selective Reductions in Prefrontal Glucose Metabolism in Murders
Adrian Raine, Monte S. Buchsbaum, Jill Stanley, Steven Lottenberg, Leonard Abel, and Jacqueline Stoddard

374 Adrenal Weight and Morphology in Victims of Completed Suicide
Eva Szighethy, Yeates Conwell, Nicholas T. Forbes, Christopher Cox, and Eric D. Caine

381 Frontal and Parietal Metabolic Disturbances in Unipolar Depression
Francoise Biver, Serge Goldman, Veronique Delvenne, Andre Luxen, Viviane DeMaertelaer, Philippe Hubain, Julien Mendlewicz, and Francoise Lotstra

389 Cortisol Suppression by Dexamethasone in the Healthy Elderly: Effects of Age, Dexamethasone Levels, and Cognitive Function
John T. O'Brien, Isaac Schweitzer, David Ames, Virginia Tuckwell, and Maree Mastwyk

REVIEW ARTICLE

395 Serotonin and Alcohol Intake, Abuse and Dependence: Findings of Animal Studies
David LeMarquand, Robert O. Pihl, and Chawki Benkelfat

CASE REPORT

422 The Relationship between Mood and Daily Hours of Sunlight in Rapid Cycling Bipolar Illness
John M. Eagles

BRIEF REPORTS

425 Plasma and CSF HVA Levels in Panic Patients with Comorbid Social Phobia
Michael R. Johnson, R. Bruce Lydiard, Joseph J. Zealberg, Mark D. Fossey, and James C. Ballenger

428 Evidence for Familial Association of Psychiatric Disorders and Epilepsy
Robert E. Murray, Bassel Abou-Khalil, and Laura Griner

Volume 36, Number 7, October 1, 1994

EDITORIAL

431 Catatonia in DSM-IV
Max Fink

ORIGINAL ARTICLES

434 A Linkage Study of Affective Disorder with DNA Markers for the ABO-AK1-ORM Linkage Group Near the Dopamine Beta Hydroxylase Gene
Robin Sherrington, David Curtis, Jon Brynjolfsson, Eamonn Moloney, Larry Rifkin, Hannes Petursson, and Hugh Gurling

443 Assessment of Recovery of Electrophysiological and Neuropsychological Functions in Chronic Alcoholics
Susan Glenn, Oscar A. Parsons, and Rajita Sinha

453 Lateralization of the Bereitschaftspotential to the Left Hemisphere in Patients with Major Depression
Clemenz Haag, Norbert Kathmann, Christoph Hock, Wilfried Günther, Ulrich Voderholzer, and Gregor Laakmann

458 Platelet [^{3}H] Paroxetine Binding, 5-HT-Stimulated Ca^{2+} Response, and 5-HT Content in Winter Seasonal Affective Disorder
Norio Ozaki, Norman E. Rosenthal, Pascale Mazzola, Chuang C. Chiueh, Todd Hardin, Diego Garcia-Borreguero, Paul J. Schwartz, Eric Turner, Dan A. Oren, and Dennis L. Murphy

467 Pharmacogenetic Response to Antidepressants in a Multicase Family with Affective Disorder
Richard L. O'Reilly, Lisa Bogue, and Shiva M. Singh

472 Total Cholesterol and Suicidality in Depression
Patrick F. Sullivan, Peter R. Joyce, Cynthia M. Bulik, Roger T. Mulder, and Mark Oakley-Browne

478 BR-16A Protects Against ECS-Induced Anterograde Amnesia
Jerry Joseph, B.V. Venkataraman, I.A. Naga Rani, and Chittaranjan Andrade

CASE REPORTS

482 CSF Antibodies for Dynorphin Bind Synthetic Staphylococcus Aureus Replication Protein B 275-290
Benjamin F. Roy, Michelle M. Dauphin, Deborah L. Warden, Phillip F. Pierce, and John R. Richert

485 Moderate Hyponatremia and Death in a Polydipsic Schizophrenic on Lithium
Morris B. Goldman

BRIEF REPORTS

487 Potential Impact of Valproic Acid Therapy on Clozapine Disposition
Patrick Finley and Dhyanne Warner

489 Depletion of Glutathione and Enhanced Lipid Peroxidation in the CSF of Acute Psychotics Following Haloperidol Administration
B. Nagesh Pai, N. Janakiramaiah, B.N. Gangadhar, and Vijayalakshmi Ravindranath

492 Further Evidence for a Specific Role of Estradiol in Schizophrenia?
Anita Riecher-Rössler, Heinz Häfner, Angelika Dütsch-Strobel, Manfred Oster, Michael Stumbaum, Martina van Gülick-Bailer, and Walter Löffler

495 Platelet GTP-Binding Protein in Long-Term Abstinent Alcoholics with an Alcoholic First-Degree Relative
Toshikazu Saito, Yoshinari Katamura, Hiroki Ozawa, Shinichi Hatta, and Naohiko Takahata

CORRESPONDENCE

498 Lithium Involvement in Physostigmine-Induced Seizures; Cytokines in Major Depression; Response

Volume 36, Number 8, October 15, 1994

EDITORIAL

501 Psychiatric Disease and the Neurobiology of Behavior
Brian Kirkpatrick

ORIGINAL ARTICLES

503 ^{31}Phosphorus Magnetic Resonance Spectroscopy of the Frontal and Parietal Lobes in Chronic Schizophrenia
Raymond F. Deicken, Giovanna Calabrese, Edward L. Merrin, Dieter J. Meyerhoff, William P. Dillon, Michael W. Weiner, and George Fein

511 24-Hour Lithium Concentration in Human Brain Studied by Li-7 Magnetic Resonance Spectroscopy
Per Plenge, Anders Stensgaard, Henrik V. Jensen, Carsten Thomsen, Erling T. Mellerup, and Ole Henriksen

517 Viral Antibodies in Recent Onset, Nonorganic Psychoses: Correspondence with Symptomatic Severity
S. Srikanth, V. Ravi, K. Shenoy Poornima, K.T. Shetty, B.N. Gangadhar, and N. Janakiramaiah

522 Concordance of Smooth Pursuit and Saccadic Measures in Normal Monozygotic Twin Pairs
Bradley B. Bell, Larry A. Abel, Wei Li, Joe C. Christian, and Robert D. Yee

527 P300 Responses to Novel Auditory Stimuli in Hospitalized Schizophrenic Patients
Edward L. Merrin and Thomas C. Floyd

543 Thyrotropin Response to TRH Stimulation in Depressed Patients with Autoimmune Thyroiditis
Robertas Bunevičius, Gintautas Kazanavičius, and Artūras Telksnys

548 Autonomic Function in Panic Disorder: Cardiorespiratory and Plasma Catecholamine Responsivity to Multiple Challenges of the Autonomic Nervous System
Murray B. Stein and Gordon J.G. Asmundson

BRIEF REPORTS

559 Lack of Insight: Its Status within Schizophrenic Psychopathology
Victor Peralta, and Manuel J. Cuesta

562 A Likely in Vivo Probe of Human Circadian Timing System Function Using PET
David J. Diehl, Mark A. Mintun, David J. Kupfer, and Robert Y. Moore

566 NEWS AND NOTES

567 CALL FOR PAPERS

568 SOCIETY AWARDS

Volume 36, Number 9, November 1, 1994

ORIGINAL ARTICLES

573 ^{31}Sleep EEG Features of Adolescents with Major Depression
Graham J. Emsile, A. John Rush, Warren A. Weinberg, Jeanne W. Rintelmann, and Howard P. Roffwarg

582 Growth Hormone Responses to Pyridostigmine in Schizophrenia: Evidence for Cholinergic Dysfunction
Veronica O'Keane, Kathryn Abel, and Robin M. Murray

589 No Evidence of Linkage or Allelic Association of Schizophrenia with DNA markers at Pericentric Region of Chromosome 9
Shinichiro Nanko, Rimmei Fukuda, Mineko Hattori, Tukasa Sasaki, Xiao Y. Dai, Michael Gill, Shoji Kuwata, Yoichi Shibata, and Hajime Kazamatsuri

595 The Development of a Method to Measure [^{3}H] Dopamine Uptake by Washed Platelets Provides No Evidence for Circulating Inhibitors of Platelet Dopamine Uptake in Schizophrenia
Suresh Sundram, Brian Dean, and David L. Copolov

601 Subclinical Impairment of Lung Airways in Patients with Panic Disorder
Giampaolo Perna, Claudio Marconi, Marco Battaglia, Angelo Bertani, Andrea Panzacchi, and Laura Bellodi

606 Plasma Pyridoxal Phosphate in Anxiety Disorders
Naresh P. Emmanuel, R. Bruce Lydiard, Robert D. Reynolds, John Roberts, Michael Johnson, Olga Mintzer and James C. Ballenger

609 Opioid Tonus and Luteinizing Hormone Secretion in Anorexia Nervosa: Priming Effect with Serotonin Precursor L-5-Hydroxytryptophan during Pulsatile Gonadotropin-Releasing Hormone Administration
Sandara Valenti, Massimo Giusti, Roberta Guido, Domenico Cavallero, and Giulio Giordano

616 Acute and Delayed Effects of Corticotropin-Releasing Hormone on Dopamine Activity in Man
Joel A. Posener, Joseph J. Schildkraut, Gordon H. Williams, Ray E. Gleason, Melinda S. Salomon, Gabriel Mecheri, and Alan F. Schatzberg

622 Free-Running Period of Circadian Rhythms-is Shorter in Rats with a Genetically Upregulated Central Cholinergic System
Priyattam J. Shiromani and David Overstreet

BRIEF REPORTS

627 Striatal D2-Dopamine Receptor Occupancy during Treatmen with Typical and Atypical Neuroleptics
Joseph Scherer, Klaus Tatsch, Johannes Schwarz, Wolfgang Oertel, M.C. Kirsch, and Margot Albus

630 Metoclopramide and Tardive Dyskinesia
Daniel D. Sewell, Angela B. Kodsi, Michael P. Caligiuri and Dilip V. Jeste

633 Methylphenidate Increases Rat Cerebral Cortex Levels of N-Acetyl-Aspartic Acid and N-Acetyl-Aspartyl-Glutamic Acid
Barret E. Stoller, H. Jordan Garber, Todd A. Tishler, and William H. Oldendorf

637 Effects of Chronic Cocaine Treatment on Rat Brain: Long-Term Reduction in Frontal Cortical Serotonin
Michael F. Egan, Lauren Wing, Rena Li, Darrell G. Kirch, and Richard Jed Wyatt

Volume 36, Number 10, November 15, 1994

ORIGINAL ARTICLES

641 A Deficit Profile of Executive, Memory, and Motor Functions in Schizophrenia
Edith V. Sullivan, Paula K. Shear, Robert B. Zipursky, Harvey J. Sagar, and Adolf Pfefferbaum

654 Longitudinal Changes in Symptoms and Plasma Homovanillic Acid Levels in Chronically Medicated Schizophrenic Patients
Eiji Suzuki, Shigenobu Kanba, Masashi Nibuya, Sunao Adachi, Utako Sekiya, Futoshi Shintani, Norihasa Kinoshita, Gohei Yagi, and Masahiro Asai

662 Visible Persistence Decay Rates for Schizophrenics and Substance Abusers
Barry D. Schwartz, William J. Evans, Jose M. Pena, and Daniel K. Winstead

670 Sensorimotor Gating and Habituation Evoked by Electro-Cutaneous Stimulation in Schizophrenia
Francesca Bolino, Vittorio Di Michele, Loredana Di Cicco, Vincenzo Manna, Enrico Daneluzzo, and Massimo Casacchia

680 Flinders Resistant Hypocholinergic Rats Exhibit Startle Sensitization and Reduced Startle Thresholds
Athina Markou, Keith Matthews, David H. Overstreet, George F. Koob, and Mark A. Geyer

689 Arginine but Not Pyridostigmine, a Cholinesterase Inhibitor, Enhances the GHRH-Induced GH Rise in Patients with Anorexia Nervosa
E. Ghigo, E. Arvat, L. Gianotti, M. Nicolosi, M.R. Valetto, S. Avagnina, D. Bellitti, M. Rolla, E.E. Müller, and F. Camanni

696 Twenty-Four-Hour Food Intake in Patients with Anorexia Nervosa and in Healthy Control Subjects
Madelyn H. Fernstrom, Theodore E. Weltzin, Shira Neuberger, Nalini Srinivasagam, and Walter H. Kaye

BRIEF REPORTS

703 Effects of Traumatic Stress on Defensive Burying: An Alternative Test of the Learned Helplessness Animal Model of Depression and Enhanced Retrieval of Unpleasant Memories
J. Bruce Overmier, Robert Murison, Toril Taklo, and Randi Espelid

705 Decreased Parameters of Heart Rate Variation in Amitriptyline Treated Patients: Lower Parameters in Melancholic Depression than in Neurotic Depression—A Biological Marker?
Thomas Rechlin

CORRESPONDENCE

708 Cerebrospinal Fluid Acetycholinesterase Homospecific Activity in Patients with "Probable Alzheimer's Disease"; Polydipsia and Hippocampal Pathology

711 CALL FOR PAPERS

712 SOCIETY AWARDS

Volume 36, Number 11, December 1, 1994

ORIGINAL ARTICLES

717 The Comparative Efficacy and Long-Term Effect of Clozapine Treatment on Neuropsychological Test Performance
Robert W. Buchanan, Constanze Holstein, and Alan Breier

726 An Empirical Analysis of Latent Structures Underlying Schizophrenic Symptoms: A Four-Syndrome Model
victor Peralta, manuel J. Cuesta, and Jose de Leon

737 Temporal Lobe Abnormalities in Multigenerational Families with Schizophrenia
William G. Honer, Anne S. Bassett, Geoffrey N. Smith, Jocelyne S. Lapointe, and Peter Falkai

744 Varied Psychiatric Manifestations of Acute Intermittent Porphyria
Paramala J. Santosh and Savita Malhotra

748 Effects of Treatment with Imipramine and Clonazepam on an Animal Model of Panic Disorder
Anantha Shekhar

CASE REPORTS

759 Myoclonic Seizures and "Leg Folding" Phenomena with Clozapine Therapy: Report of Two Cases
R. Eduardo Antelo, Joseph K. Stanilla, and Nieves Martin-Llonch

763 MDMA ("Ecstasy") Abuse: Psychopathological Features and Craving for Chocolate: A Case Series
Fabrizio Schifano and Guido Magni

BRIEF REPORTS

768 Clozapine for Polydipsia and Hyponatremia in Chronic Schizophrenics
David C. Henderson and Donal C. Goff

771 Effects of Lithium on Thyroid Hormone Metabolism in Rat Frontal Cortex
Andreas Baumgartner, Angel Campos-Barros, ursula Gaio, Carsten Hessenius, Ines Frege, and Harald Meinhold

775 Effects of Tryptophan Depletion in Panic Disorder
Andrew W. Goddard, Diane E. Sholomskas, Katherine E. Walton, Francine M. Augeri, Dennis S. Charney, George R. Heninger, Wayne K. Goodman, and Lawrence H. Price

778 A Comparison of the Effects of Imipramine and Fluvoxamine on the Thyroid Axis
Kathleen T. Brady, R. Bruce Lydiard, Charles H. Keller, Russel Joffe, Lyle Knight Laird, W. Alexander Morton, and Thomas E. Steele

CORRESPONDENCE

780 Further Evidence for an Association between Electrodermal Unresponsiveness and Structural Brain Abnormalities; CYP2D6 Genotype and Possible Susceptibility to the Neuroleptic Malignant Syndrome

783 NEWS AND NOTES

785 SOCIETY AWARDS

Volume 36, Number 12, December 15, 1994

EDITORIAL

789 Magnetic Resonance Spectroscopy in Schizophrenia: A Nascent Technology for a Neurodevelopmental Disorder?
Peter F. Buckley and John L. Waddington

ORIGINAL ARTICLES

792 ^{1}H-Magnetic Resonance Spectroscopy of the Left Temporal and Frontal Lobes in Schizophrenia: Clinical, Neurodevelopmental, and Cognitive Correlates
Peter F. Buckley, Constance Moore, Helen Long, Conall Larkin, Paul Thompson, Fiona Mulvany, Oonagh Redmond, John P. Stack, Joseph T Ennis, and John L. Waddington

801 Quantitative Electrophysiological Characteristics and Subtyping of Schizophrenia
E. Roy John, Leslie S. Prichep, Kenneth R. Alper, Francis G. Mas, Robert Cancro, Paul Easton, and Lev Sverdlov

827 Quantitative Autoradiography of Dopamine-D1 Receptors, D2 Receptors, and Dopamine Uptake Sites in Postmortem Striatal Specimens from Schizophrenic Patients
Michael B. Knable, Thomas M. Hyde, Mary M. Herman, Joye M. Carter, Llewellyn Bigelow, and Joel E. Kleinman

836 Role of Interleukin-6 and Transforming Growth Factor-β in Anorexia Nervosa
Claire Pomeroy, Elke Eckert, Shuxian Hu, Beth Eiken, Margaret Mentink, Ross D. Crosby, and Chun C. Chao

840 Effects of Sleep Deprivation on Serotonin Function in Depression
Ronald M. Salomon, Pedro L. Delgado, Julio Licinio, John H. Krystal, George R. Heninger, and Dennis S. Charney

BRIEF REPORTS

847 Reduced Plasma Noradrenaline and Abnormal Heart Rate Variability in Resting Panic Disorder Patients
Hugh C. Middleton, Michael Ashby, Trevor W. Robbins

850 Single-Strand Conformation Analysis (SSCA) of the Dopamine D1 Receptor Gene (DRD1) Reveals No Significant Mutation in Patients with Schizophrenia and Manic Depression
Sven Chichon, Markus M. Nöthen, Marcella Rietschel, Judith Körner, and Peter Propping

854 Nonsteroidal Antiinflammatory Drug Use in Alzheimer's Disease
Ugo Lucca, Mauro Tettamanti, Gianluigi Forloni, and Alberto Spagnoli

857 SOCIETY AWARDS

860 ACKNOWLEDGMENTS

863 AUTHOR INDEX TO VOLUME 36

871 SUBJECT INDEX TO VOLUME 36